NASA'S MISSION TO PLANET EARTH
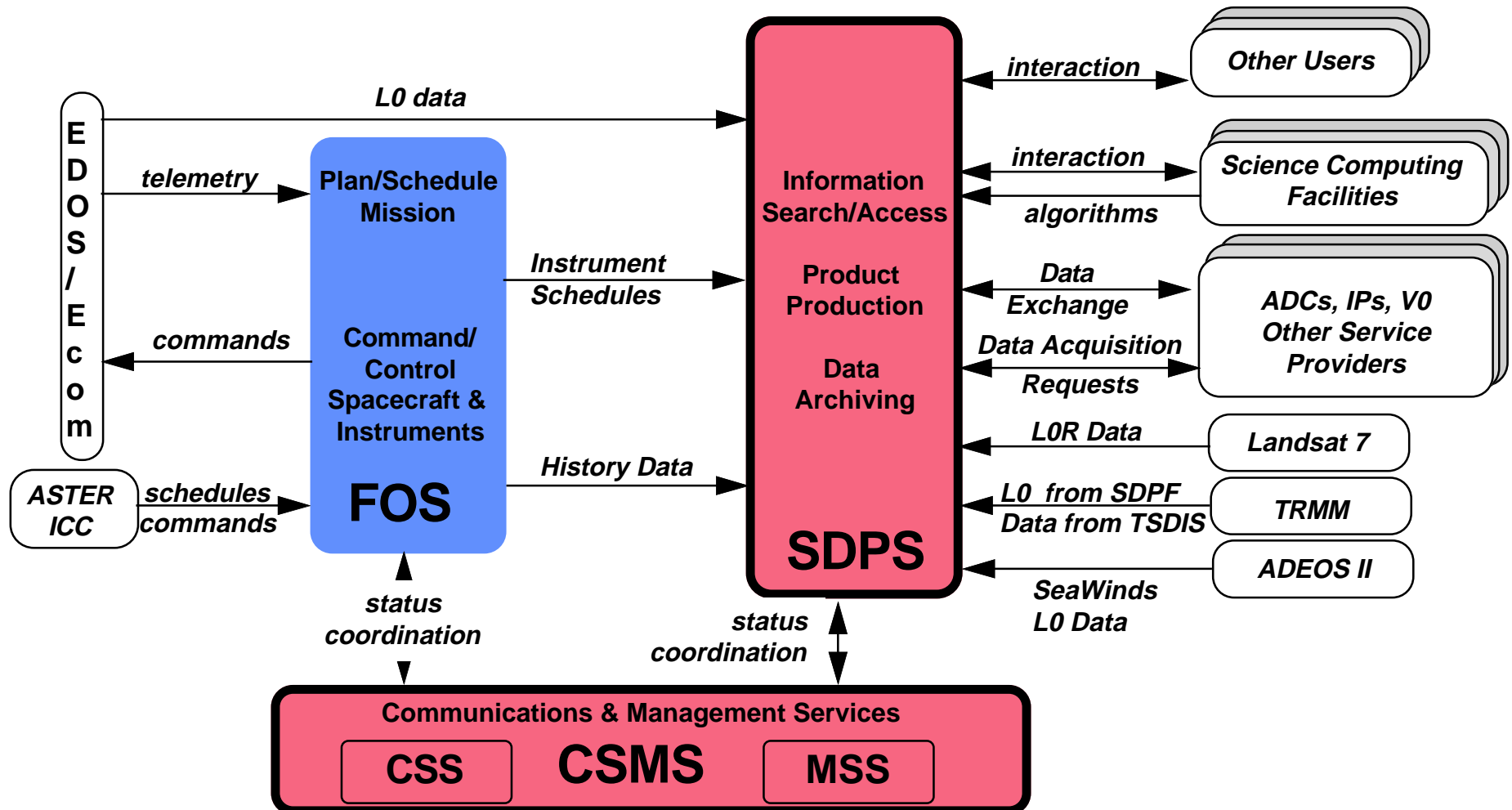
EARTH PROBES

DATA INFORMATION SYSTEM
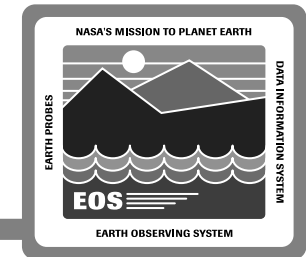
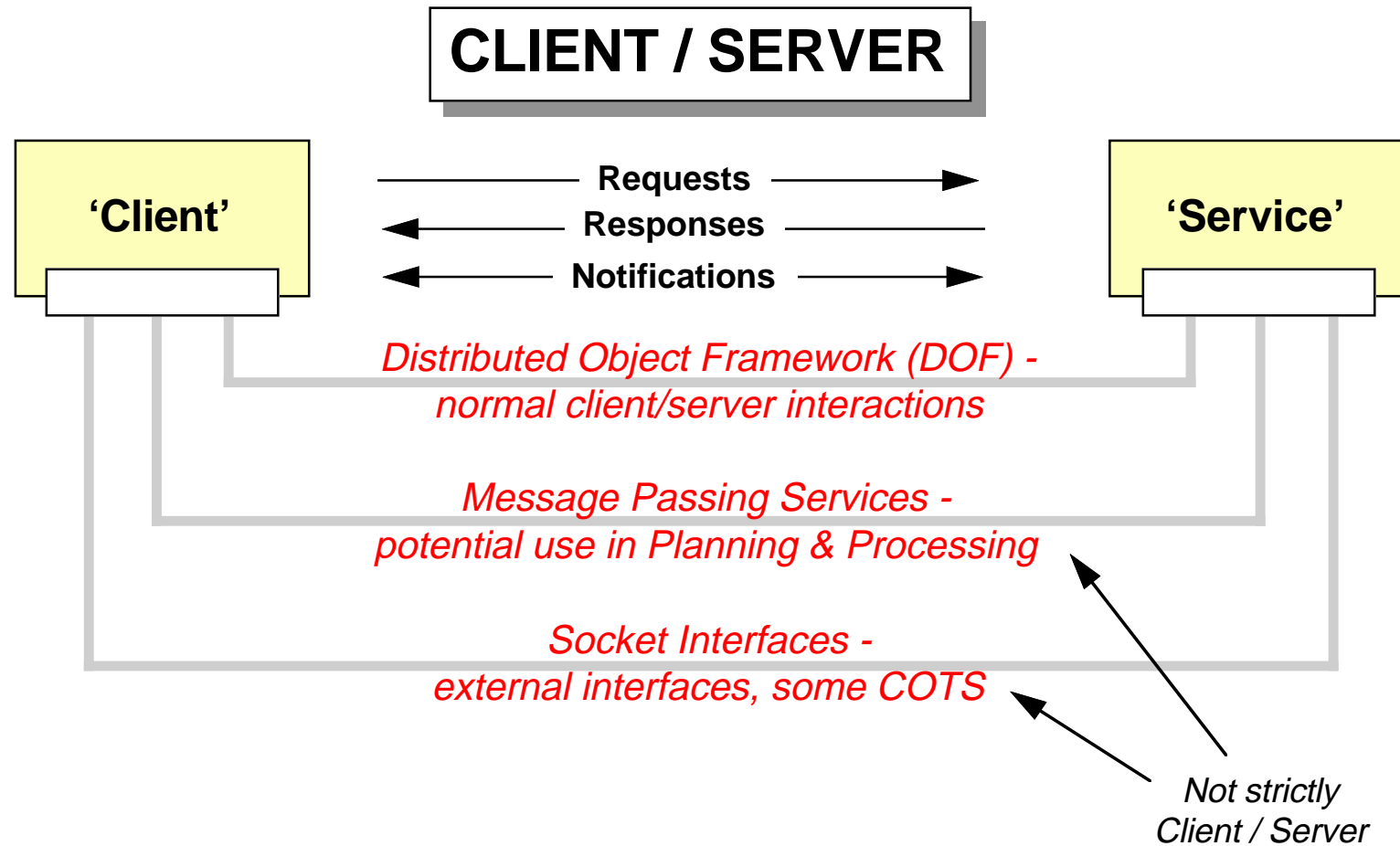EOS

EARTH OBSERVING SYSTEM

CSMS Service Utilization
Richard Meyer

13 February 1995

Segment Interface Context

CSMS Interfaces - Overview

CLIENT / SERVER

'Client' → Requests → 'Service'

'Client' ← Responses ← 'Service'

← Notifications →

Distributed Object Framework (DOF) - normal client/server interactions

Message Passing Services - potential use in Planning & Processing

Socket Interfaces - external interfaces, some COTS

Not strictly Client / Server
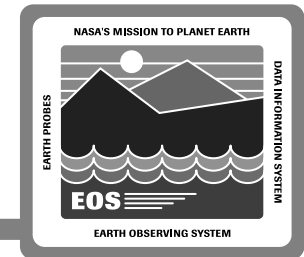
CSMS Interfaces - Overview

BULK DATA TRANSFER

'Service'

'data'   'data'

'Client'   **External System**

File Transfer or Distributed File System - bulk results, staging
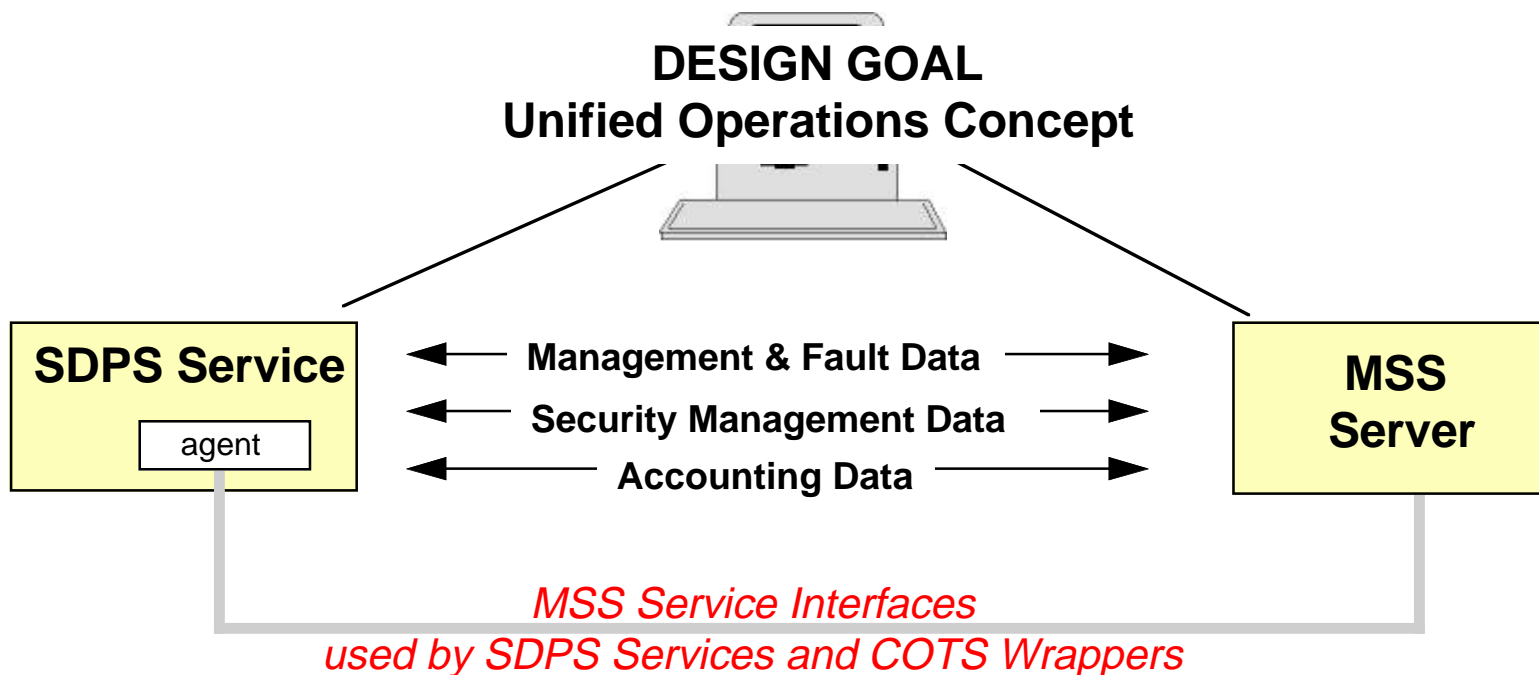
File Transfer - external interfaces
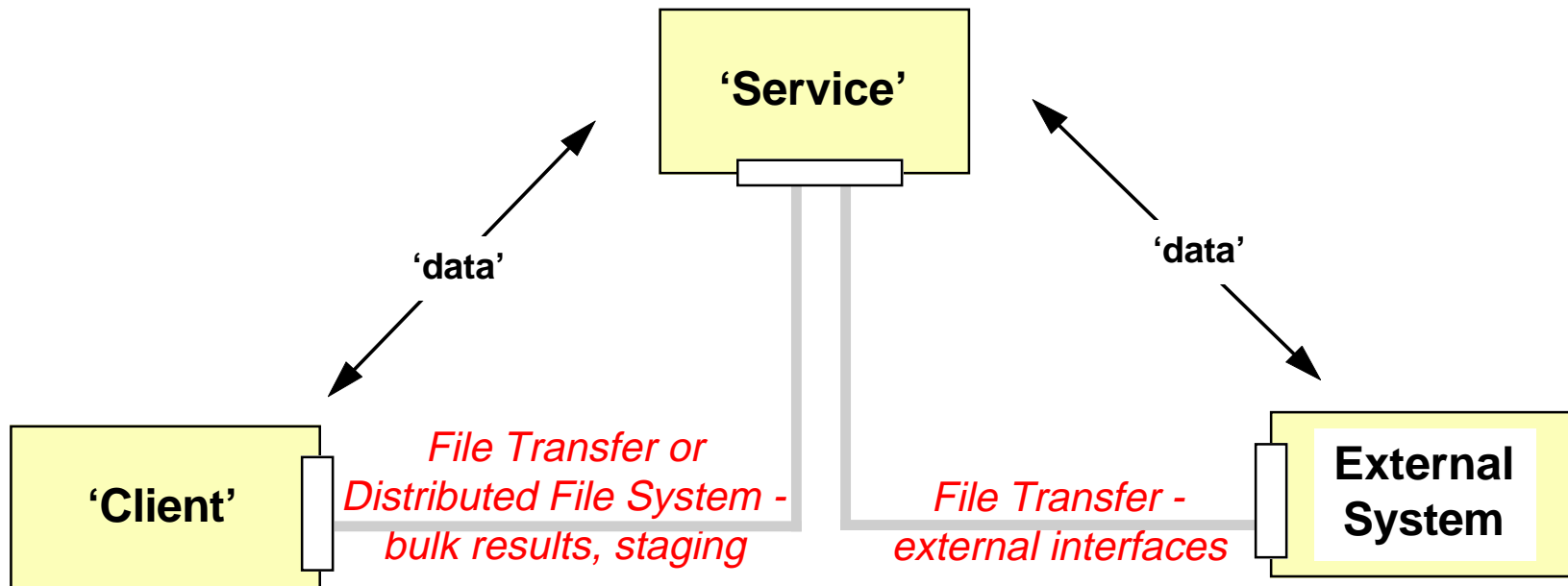
More on these issues in "Data Server Subsystem Design" (Tuesday p.m.) "Ingest Subsystem Design" (Wednesday a.m.)
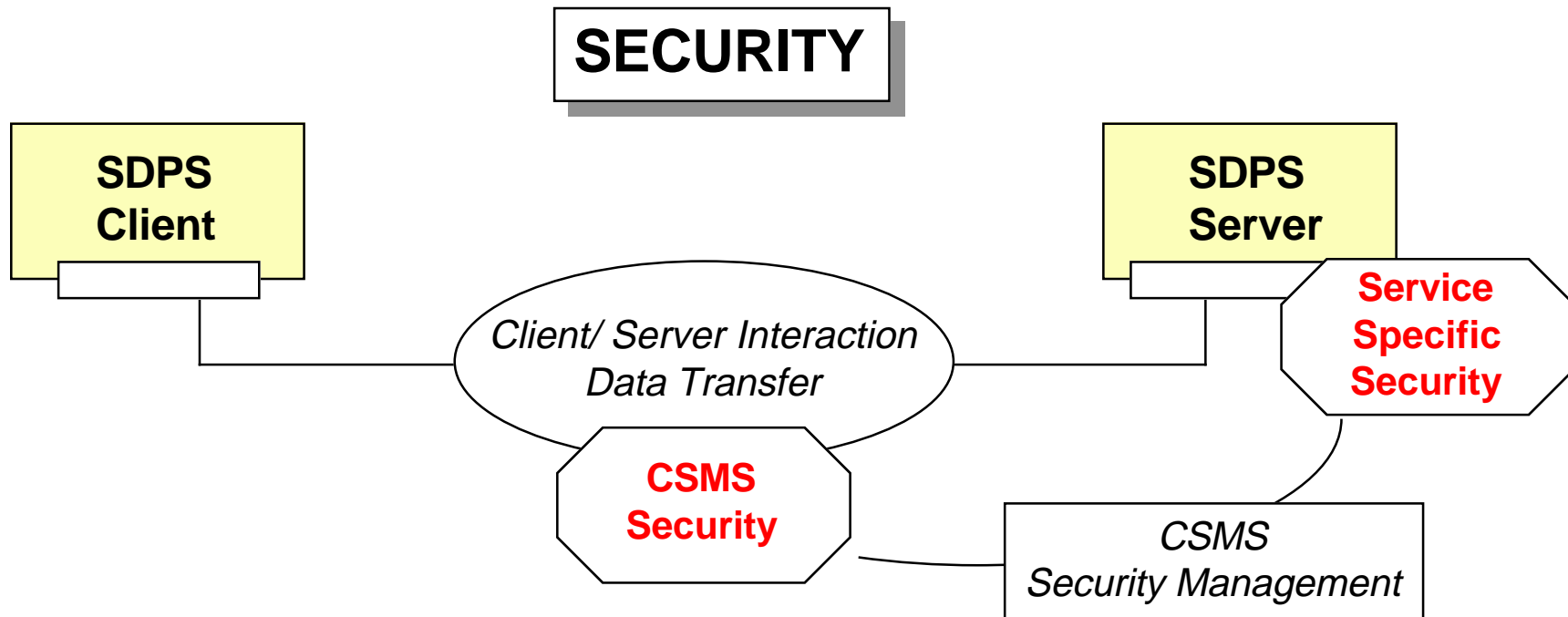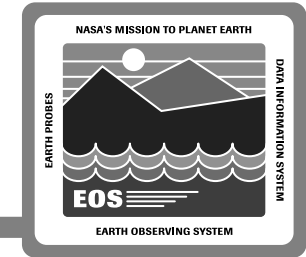
CSMS Interfaces - Overview

Enterprise Management

DESIGN GOAL
Unified Operations Concept

SDPS Service		MSS
agent	Management & Fault Data	Server
	Security Management Data	
	Accounting Data	

MSS Service Interfaces
used by SDPS Services and COTS Wrappers

More on this in
"Planning and Processing" (Wednesday)
"Integrated Approach to Operations" (Thursday p.m.)

CSMS Interfaces - Overview

SECURITY

SDPS Client

SDPS Server

Client/ Server Interaction Data Transfer

Service Specific Security

CSMS Security

CSMS Security Management

CSMS controls capability of a client to access a service.

SDPS services may provide more fine grained security.

Use CSMS security management.